BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Name of Work:-Detailed Estime for Supplaying and Laying aerial Bunched cable and TC Services,Connected road to Allalsandra lake Bund Pathway Lights in Yelahanka Ward No 04

Ward No. 04 **Estimate No:-** **For Rs.** **400000.00**

Sl No	SR Page & SL No	Description Of Work	Unit	Qty	Rate	Amount
1	106/16.3	Filtering of oil in the transformer at the transformer center by hot process using "Stream line filter" such time the dielectric strength of the oil in the transformer conforms to ISI specification [Test certificate to be produced]	Litre	150	20.00	3000.00
2	106/16.33	Supplying and Testing of OIL for Di-Electric strength (BDV) / Acidity	Per Sample	2	197.00	394.00
3	16.3	Supplying and Topping -up of new Transil OIL	Per Litre	50.00	170.00	8500.00
4	34/5.13.1	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 32	Nos	2	15000.00	30000.00
5	108/17.4.1	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories.Single bracket 1.5 Mtr. Length	Mtrs	2	1292.00	2584.00
6	56/7.6.4	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.2 X 25 + 1 X 25 SQ.MM	Per Mtr	1400	150.00	210000.00

7	Bes SR	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Per Mtr	1400	10.00	14000.00
8	2.09	2 Pin Cross Arm with pole clamp, bolt & nuts & washers for RCC Pole - MS	Nos	40	162.00	6480.00
9	53.15	Piercing Connector Suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections	Nos	40	160.00	6400.00
10	53.23	Suspension Clamp Assembly16 to 70 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook)	Nos	40	190.00	7600.00
11	53.19	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook)	Nos	4	131.00	524.00
12	4.1	Fixing of 2 Pin cross arm with insulator and Braces fixing	Nos	40	96.00	3840.00
13	46.6	Erection of Suspension Clamp - 25 to 95 sqmm bare messenger	Nos	40	115.00	4600.00
14	46.12	Installation of Insulation piercing connector for main to street lightMain : 16-95sqmm, Tap : 1.5-10sqmm(EP95)	Nos	39	54.00	2106.00
15	46.10	Fixing of Universal Hook/Dead end clamp	Nos	4	115.00	460.00
16	6.13.B.8	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE 200Amps 35kA.	Nos	3	14592.00	43776.00
17	49/6.40.2	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Sqcm	30000	0.33	9900.00
18	46/6.12.4	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	Nos	1	9915.00	9915.00
19	46/6.13.A.1	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps 25kA.	Nos	1	4044.00	4044.00

20	AR	Supplay and erection of Single phase Thyristor based smart street light control system consisting of following aquipments 1. Precise turn ON & OFF of street lights on pre programmed data 2. 2 x 16 character LCD display unit to display date, status ON Or OFF , turn ON & OFF time, 3. Keypad to set/edit ON & OFF time as per the end user 4. Microcontroller with Real Time Clock and associated hardware 5. 1 No, SCR 162 amps thyristor module for load switching mounted on an extruded alluminium heat sink 6. Thyristor Driver Card: Driver control circuit to switch ON & OFF the Thyristor module 7. Firmware: Firmware to control the hardware and display the required data 8. Power Supply: AC to DC conversion circuit required for the electronic circuitry and driver control card	Nos	1	31860.00	31860.00
		Mislenious				17.00
		TOTAL				**400000.00**

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) S.R.2014-15 , BESCOM SR and Approved Rates.

T.N. Reddy
Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 4.00 Lakh.
RUPEES FOUR LAKH - ONLY -
is accorded under he PD294 ~~MATERIAL/WIP~~ M. AND R to ELECTRICAL INST IN BMP BUILDING. SCHOOLS
Registered as EE No. 05/2018-19 Subject to conditions contained in enclosed memo No BBMP/EE/ELE/Y2/AS/05/2018-19 Dt 25-09-2018

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 4.00 Lakh
Rupees FOUR LAKH - ONLY
Under PD294 M. AND R to ELECTRICAL INST IN BMP BUILDING SCHOOLS
Registered as EE ( ) No. 05/2018-19
Subject to conditions contained in enclosed memo EE ( ) No. EE/ELE/Y2/AS/05/18-19
Dt. Estimate A/ Sanctioned BBMP/EE/ELE/Y2/TS/05/2018-19
Dated 25.09.2018 Rs. 4.00 LAKHS

Executive Engineer